# Arbitrator-CP ver.1.9
# Basic Operation
# [For Officers]

# Arbitrator-CP Basic Operation for Officers

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# (1) Control Reference Guide
## Front Camera (AG-CK10P)

**Rear panel LED Control**

**Backlight compensation**
to make it brighter

**Connector for VPU**

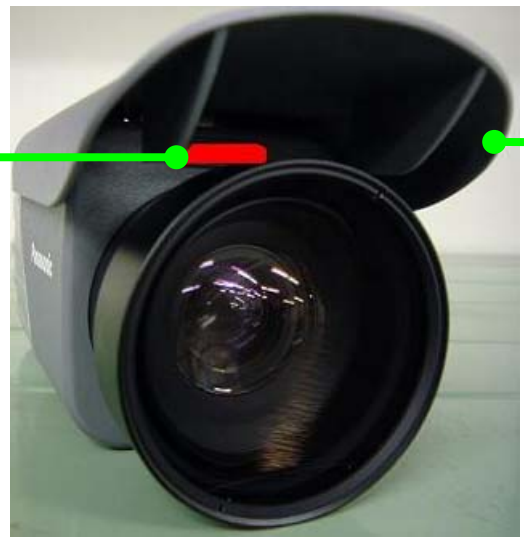
**T(TELE) for Zoom In**
**W(WIDE) for Zoom Out**

**Auto Zoom**
**Camera Control**

**REC Start and STOP**

*Keep pressing this button for more than 2 seconds will stop recording.

**REC LED**
Lights up in RED
while recording



**SUN Shade**

# (1) Control Reference Guide
## P2 Recorder - VPU (AG-CPD15P)

**Key Lock**
Locks and unlocks
the P2 Card slot cover

**P2 card slot cover**

**REC LED**

**REC button**

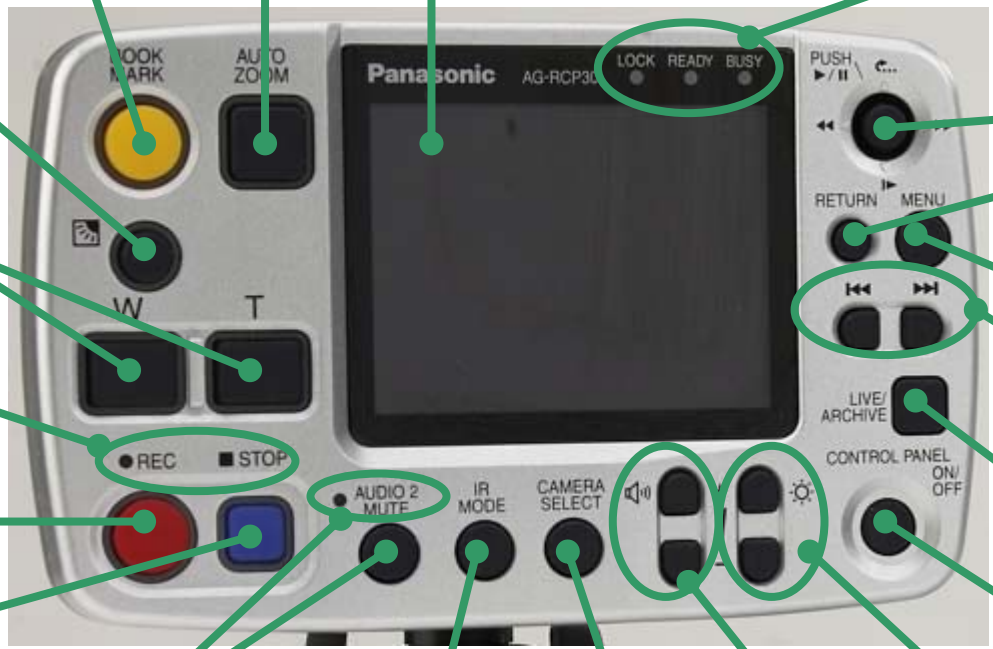
**STOP button**

**READY lamp**
Lights up when
recording is ready

**BUSY lamp**
Lights up or flashes
while a P2 card is accessed.

**P2 card slot 1, 2**

# (1) Control Reference Guide
## Control Panel (AG-RCP30P)




**Book Mark**

**Auto Zoom**

**LCD Screen**

**1) Lock Lamp**
Lock except "REC", "Menu", "Control Panel ON/OFF", "Return" Button while lights on

**2) Ready Lamp**

**3) Busy Lamp**

**Backlight Compensation**

**Cursor Button**

**T: Zoom In**
**W: Zoom Out**

**Return**
To go back to previous menu or setting

**Menu**

**REC/STOP Lamp**

**Skip (Back/Forward)**

**Live/Archive Switching Button**

**REC Button**

**STOP Button**

**Control Panel ON/OFF**

**Audio 2 Mute Button/Lamp**
Mute Audio 2 and lamp lights on by pushing this button.
No recording while muting (lights on)

**IR Mode**
(Auto/ON/OFF)

**Camera Select**
(Camera1/2))

**Volume Control**

**Brightness Control**

# (1) Control Reference Guide
## Control Panel (AG-RCP30P) - User Friendly Design

**Admin/Archive Control Mode Buttons**

**Live Control Mode Buttons**

1. **<u>High Priority Buttons for Live Control Mode</u>** on the left side for easy access
**High Priority Buttons REC, STOP, Zoom in/out, Bookmark Auto Zoom, Backlight compensation**

2. **<u>The Same REC/STOP Button Size as that of VPU</u>** (P2 Recorder) for easy recognition

3. **<u>Large Button Size and Space</u>** between buttons for Users

# (1) Control Reference Guide
## Digital Wireless Microphone TX and RX (TDSS-900-PNA)

**Transmitter (TX)**
**With Receiver (RX)**

**Transmitter (TX)**

**Lavalier Mic Input**
**Built-in Mic**
**Beep Tone**
**Talk Button: Press for REC**
**Mute Button**
**Mode Selection Button**

**Talk ON : Green LED**
**BATT : Red-In charging, Green-Fully charged**

**Regarding Mode and Indication of LED Buttons, there are 3 different versions of TX as below serial numbers.**

| Version | Serial Number |
|---|---|
| Version 1.0 | 070601609 to 071103658 |
| Version 1.5.2 | 071103659 to 071104658 |
| Version 1.5.3 | 071104659 and above |

# (1) Control Reference Guide

## Version 1.0: Digital Wireless Microphone TX

**Indication of LED BUTTON:**

**TDSS-900 TX Version 1.0**
**Serial No: 070601609 to 071103658**

| Mode | Talk | Push ↔ | REC | Low Battery | Out of Range | Mute Push Off ↔ On |
|---|---|---|---|---|---|---|
| Mode button | Talk button | | | | | Mute button |
| BEEP | Blue on | | Blue blink | Red on | Red blink fast | Red off ↔ blink |
| Vibration | Blue off | | Blue off | Red on | Red blink fast | Red off ↔ blink |
| B+V | Blue on | | Blue blink | Red on | Red blink fast | Red off ↔ blink |
| No Indication | Blue off | | Blue off | Red on | Red blink fast | Red off ↔ blink |

1. Goes this mode as initial when Power on.
2. After synchronized, the mode goes back to the last.

# (1) Control Reference Guide

## Version 1.5.2: Digital Wireless Microphone TX

**Indication of LED BUTTON:**

**TDSS-900 TX Version 1.5.2**

**Serial No: 071103659 to 071104658**

| Mode | Talk | REC | Low Battery | Out of range | Mute Button |
|---|---|---|---|---|---|
| | Push ↔ | | | | Push OFF ↔ ON |
| **Mode button** | **Talk button** | | | | |
| Mode 1<br>BEEP | Blue<br>OFF | Blue<br>ON | Blue<br>Blink Fast | Blue LED OFF<br>Beep ON | Blue LED<br>OFF ↔ Blink Slow |
| Mode 2<br>Vibration | Blue<br>OFF | Blue<br>OFF | Blue OFF | Blue LED OFF<br>Vibr ON | Blue LED<br>OFF ↔ OFF |
| Mode 3<br>B+V | Blue<br>OFF | Blue<br>ON | Blue<br>Blink Fast | Blue LED OFF<br>B+V ON | Blue LED<br>OFF ↔ Blink Slow |
| Mode 4<br>No Indication | Blue<br>OFF | Blue<br>OFF | BLUE<br>OFF | BLUE<br>OFF | Blue LED OFF |

1. Blink 2 time and then LED OFF: this mode as initial when Power on.
2. After synchronized, the mode goes back to the last.
3. When TX is Off and inserted to RX, there will be no synchronized.
4. RED LED is not available any mode.

# (1) Control Reference Guide

## Version 1.5.3: Digital Wireless Microphone TX

**Indication of LED BUTTON:**

**TDSS-900 TX Version 1.5.3**
**Serial No: 071104659 and above**

| Mode | Talk (Push) | REC | Low Battery | Out of range | Mute (Push: Off ↔ On) |
|---|---|---|---|---|---|
| Mode button | Talk button | | Mode button | Talk button | Mute button |
| Vibration | Blue on | Blue blink | Red on | Red Blink | Red off ↔ Red/Blue Blink (Mute/Talk button) |
| No Vibration | Blue off | Blue off | Red off | Red off | Red off |

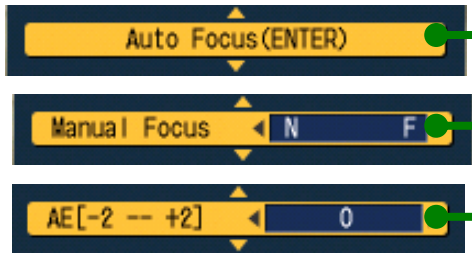
1. LED ON: this mode as initial when Power on
2. After synchronized, the mode goes back to the last.
3. When TX is Off and inserted to RX, there will be no synchronized.

# (2-a) Control Panel Menu for Officer

## [Top Menu]

## [Camera]

**For users who do not use LPR (License Plate Recognition mode) ("Init LPR Mode" in Admin set up is "Disable" as a factory default.)**
***For LPR users, please go to "Camera Menu for LPR" for details**




- Re-Auto Focusing
- Adjust manual focus
- Adjust image brightness

## [Audio]

1. "IN CAR" for In car Mic (Mic in)
2. "WMIC" for 2nd Wireless Mic (Audio 2 in)
3. "LINKCAM" to change the Audio 1 or 2 by linking with the camera changes,

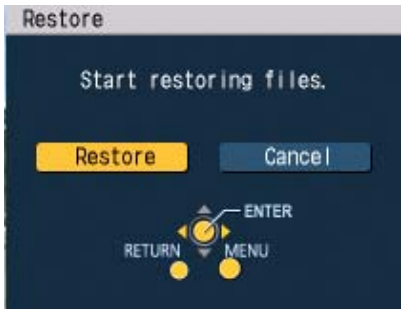
*Audio 1 for Wireless Mic 1 (Audio 1 in)

Check Audio

## [Restore]

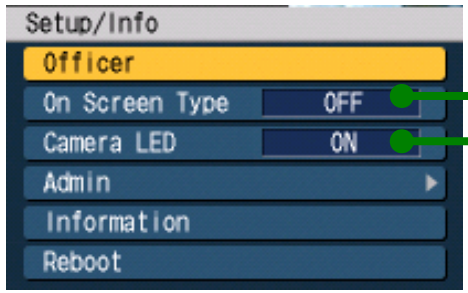
When appeared

in Control Panel OSD, execute "Restore"




## [Archive]
## Playback the recorded video

## [Setup/Info]




On Screen Type for Control Panel "Auto", "SIMPLE", "DETAILS" or "OFF"

Camera LED (Camera Tally Light), for "ON" or "OFF"

# (2-b) Camera Menu for LPR (License Plate Recognition)

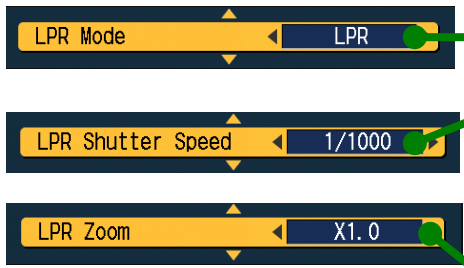
**In order to use LPR (License Plate Recognition) mode, the Administrator needs to set up "Init LPR Mode" as "Enable" in Admin/Camera menu.**

***If setting up "Init LPR Mode" as "Disable", there will be no "LPR Mode", "LPR/Patrol Shutter Speed", "LPR/Patrol Zoom" on screen as shown below. (Just "Auto Focus", "Manual Focus" or "AE" can be selectable and changed in "Camera" menu.)**

**[Top Menu] while recording is being stopped in the live screen**

**[Camera]**

**1) [LPR Mode] is set to "LPR"**



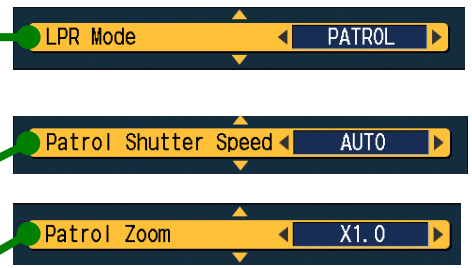

**"LPR" for LPR ON**
**"Patrol" for LPR OFF**

**Select "Auto", "1/500", or "1/1000"**

**Select "Auto", "1/100" "1/500", or "1/1000"**

**Set x1.0 to x22.0**

**2) [LPR Mode] is set to "PATROL"**



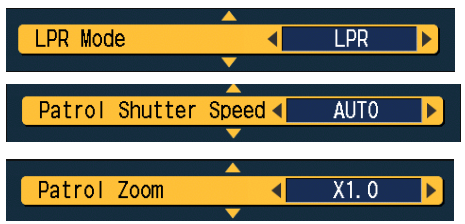

**LPR ON**

**LPR OFF**

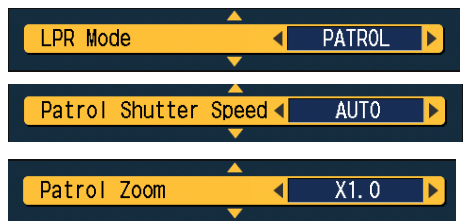
**[Top Menu] while the live screen is being recorded**

**[Camera]**

**1) [LPR Mode] is set to "LPR"**




**2) [LPR Mode] is set to "PATROL"**



# (3) Record the video (Live Mode)

**Press REC button for (1) Control Panel, (2) Camera (Rear Panel), or (3) VPU (P2 Recorder)**
***If the trigger is set, VPU will start recording automatically when the trigger is on.**

**<Control Panel>**

**<Camera>**

**<VPU-P2 Recorder>**

# (4) Playback the recorded video (Archive Mode)

**(a) Press “Live/Archive” button of Control Panel to playback the video.**
**(Playback starts from the location where playback was last made. Or if the recording was started or stopped prior to pressing “Live/Archive” button, playback starts from the beginning of the file.)**

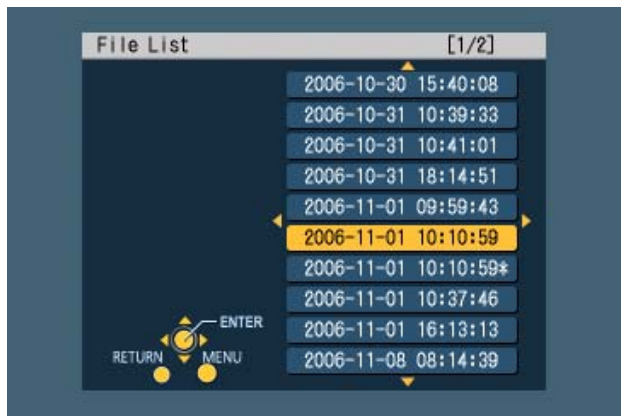
**Or**

**(b) Press “Menu” of Control Panel and go to “Archive”.**

**(b)**

**(a)**

**[Live mode]**




**[Archive mode]**

# (5) Camera Control

## (a) Zoom

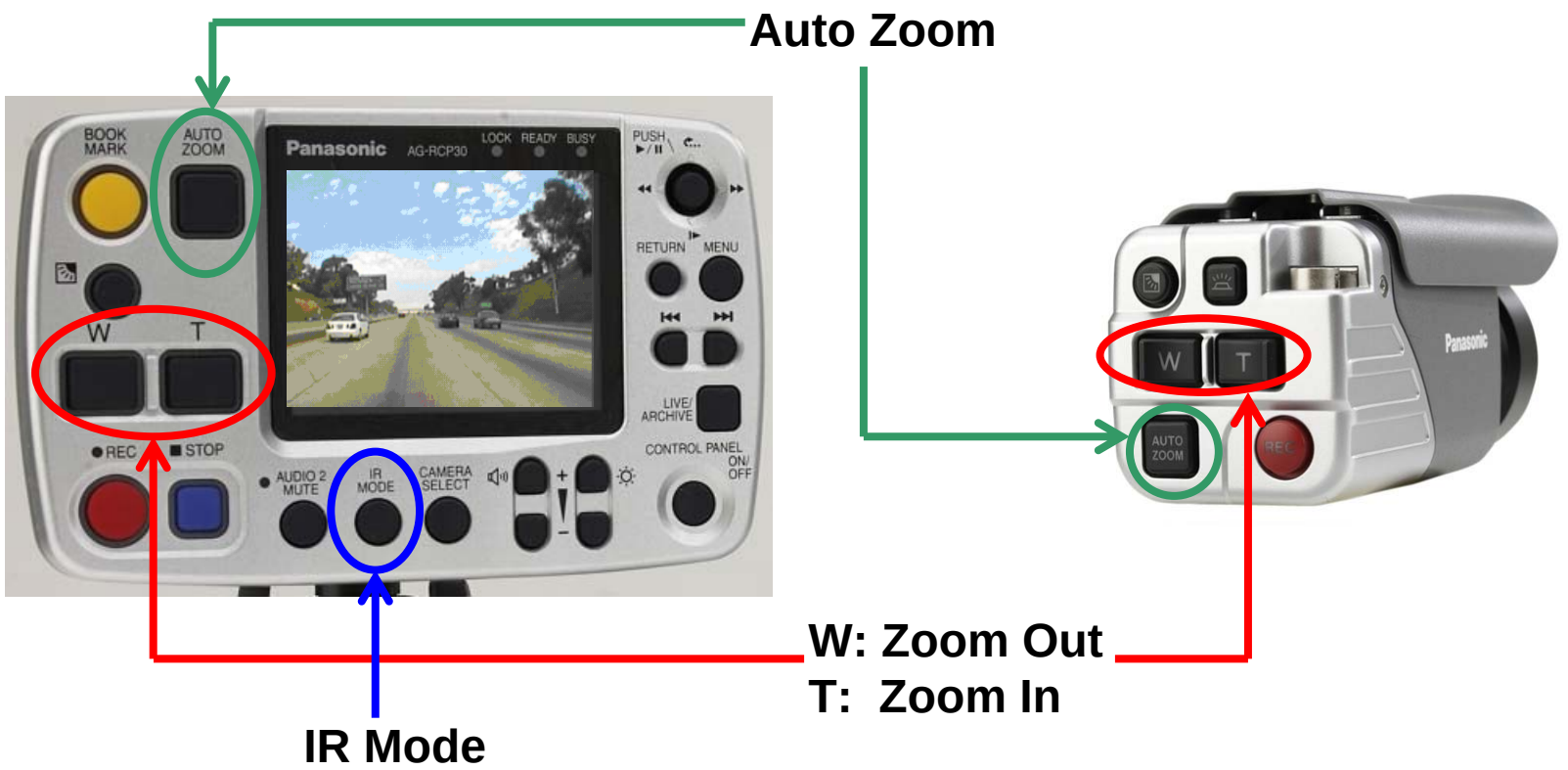
**“W”: Zoom Out**
**“T”: Zoom In**

## (b) Auto Zoom

**Press “Auto Zoom” button of Control Panel or Camera.**

## (c) IR Mode

**Press “IR Mode” button switching to IR “Auto”, “On”, “Off”**



# (6) Officer Information

## Register at the beginning of shift & delete at the end of shift

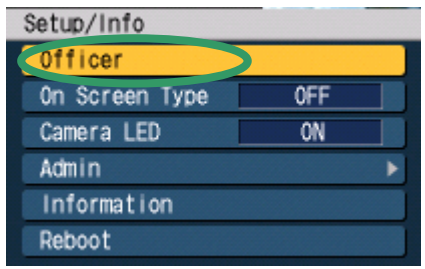
### (A) Register the Officers information (At the beginning of shift)

(1) “Auto”: Plug USB memory (saved the officer information) to VPU.
(2) “Manual”: Plug USB memory to VPU and press “Load” button.
If 2 officers need to be loaded, plug 2 different USB memories to VPU.
(3) “List”: Press “Select” button in “Officer” by Control Panel menu.

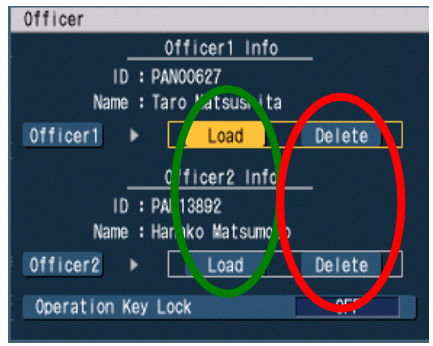
### (B) Delete the Officer information (At the end of shift)

“Manual”, “List”: Press “Delete” button in “Officer” by Control Panel menu.

[Top Menu]
-while REC stopped-

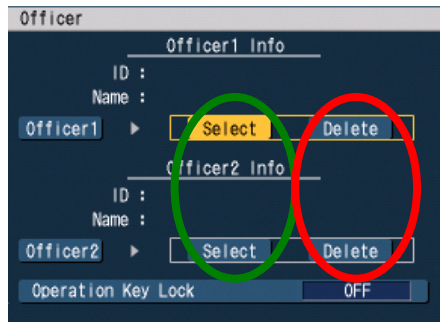



[Manual]




Register Officers

[List]




Delete Officers

# Arbitrator-CP ver.1.9
# Basic Set up & Operation
# [For Administrators]

# Arbitrator-CP Basic Set up & Operation for Administrator

-Contents-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(3) REC/Play Set up by Administrator

(4) Camera Control - Auto Zoom / IR Set up by Administrator

(5) Control Panel Key Lock

(6) On Screen Type set up by Officer / OSD set up by Administrator
(6-a) Live Mode On Screen Type
(6-b) Archive Mode On Screen Type

(7) Trigger
(a) Set up by Administrator
(b) Stop recording by Trigger OFF

(8) Menu (VPU Setting) Copy

(9) Event Type for Bookmark
(a) Create an Event Type text and register it to VPU
(b) How to Add / Delete the Bookmark?

(10) Officer/Admin Information Set up

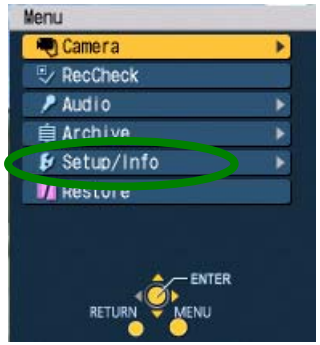
# (1) Before use, Format 16G P2 card

- Formatting 16G P2 card is mandatory at the first time usage.
- When modified (copy, delete, move etc) folders in P2 Card, please format the card.
(If you copy the folders/files from 5 slot P2 drive or PC PCMCIA to PC HDD, please format the card.)
- The format of 16G P2 card is available by Control Panel, 5 slot P2 drive and PC PCMCIA slot.
- Note that 16GB P2 card limit the number of files that can be recorded per below chart.

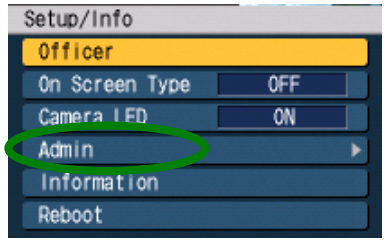
| # of recording days | # of maximum recording files per day | |
|---|---|---|
| | With Bookmark | Without Bookmark |
| 62 days | 340 files | 508 files |

## <How to format 16GB P2 card by Control Panel?>

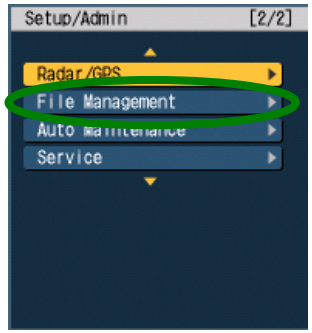
- Insert new 16GB P2 cards to P2 Recorder (VPU)
- By Control Panel Menu, go to “Setup/Info”, “Admin (page 2/2)”, “File Management” and select “Format”
- Press “Format” when “Format all P2 cards!!!” message is appeared.
  Then, you will see “All cards are formatted” message when the format is completed.



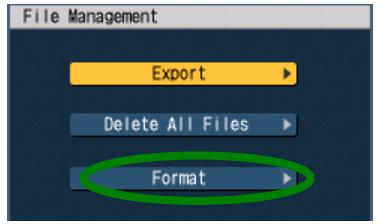

[Top Menu]



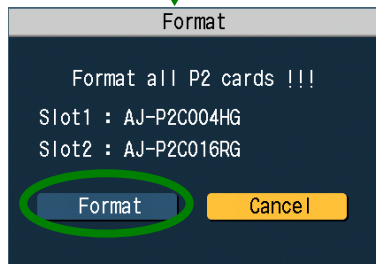

[Setup/Info]




[Admin] Page 2/2




[File Management]



# (1) 16GB P2 Card Format by Products / Combination with Windows version

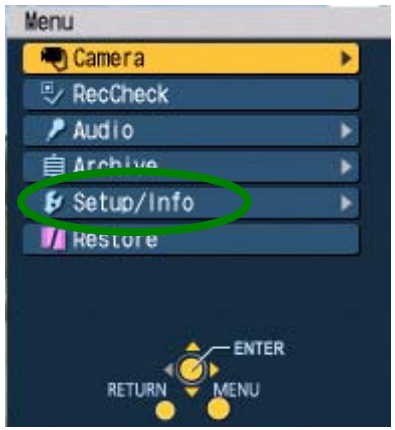
| Format by | How to format? |
|---|---|
| SI (FE Application) | By SI Menu, go to “Config”-”Operations”-”Format”. |
| Control Panel | By Control Panel Menu, go to “Setup Info”-”Admin”-”File Management”-”Format” |
| PC PCMCIA slot (Windows) | Before format, install the P2 driver (from “P2 ICV Filter w/ P2 Drivers” CD included in Arbitrator kit) to PC. Then, select the removable disc drive in PC that inserted P2 card. Right click on that drive and select “format” |
| 5 slot P2 Drive (AJ-PCD20P) | Before format, install the P2 driver (from “P2 ICV Filter w/ P2 Drivers” CD included in Arbitrator kit) to PC. Then, select the removable disc drive in PC that inserted P2 card. Right click on that drive and select “format” |
| P2 Store （AJ-PCS060G) | Before format, Install the P2 driver (from “P2 ICV Filter w/ P2 Drivers” CD included in Arbitrator kit) to PC. Then, press “Format P2C” button on the unit |

| | Vista | XP SP2 | 2000 SP4 + Hot Fix* | Server 2003 |
|---|---|---|---|---|
| PCMCIA slot (Card Bus) in PC | Y | Y | N | N |
| 5 slot P2 Drive (AJ-PCD20P) through USB | Y | Y | Y | N |
| 5 slot P2 Drive (AJ-PCD20P) though IEEE1394 | Y | Y | N | N |
| P2 Store (AJ-PCS060G) through USB | Y | Y | Y | N |

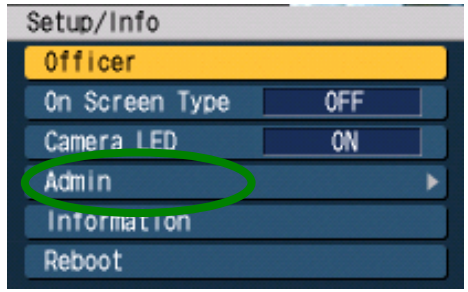
*For the users who need Win2000 Hot Fix, please contact 1-800-LAPTOP5 (1-800-527-8675) to obtain it.

# (2) Control Panel Menu for Administrator

**[Top Menu]**



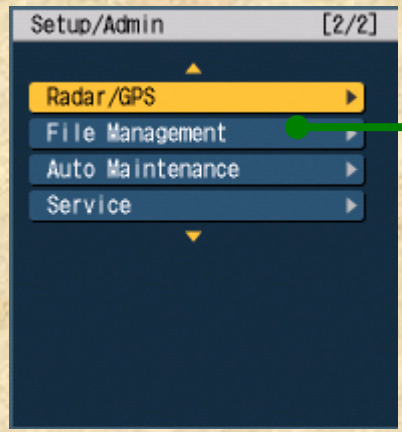

**[Setup/Info]**




**[Admin] Page 1/2**

- Record/Play mode settings
- Date and Time settings
- Officer Registration
- Trigger (8GPIO) settings
- On Screen Display settings to appear on screen and include in recording files
- Camera settings
- Management mode For Officer Registration (Auto, Manual, List)

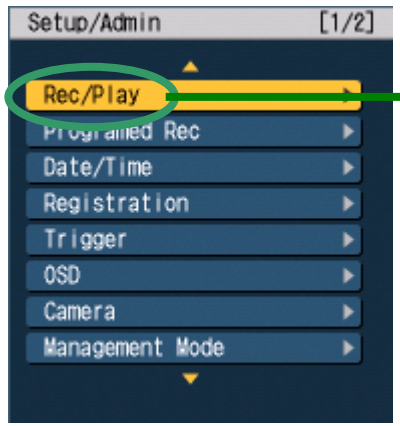
**[Admin] Page 2/2**

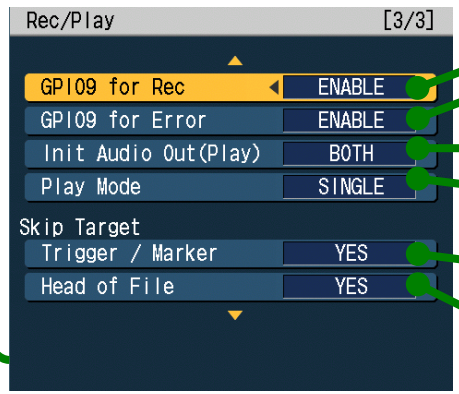



- Export or Delete files
  Format files

# (3) REC/Play Set up by Administrator

**[Admin] Page 1/2**
**From Control Panel Top Menu --"Setup info"—"Admin"**






Power off time setting after shutting down the ignition

Initial camera setting, camera 1 or 2

Initial Audio 2 setting, INCAR or 2nd WMIC or LINK CAM

Start recording when VPU is turned on

Setting: Off Fixed

1 fps (frame per sec) recording

Recording mode: F-2Mbps (720x480, 30fps)
F-1Mbps (720x480, 10fps), Q-1Mbps (320x240, 30fps)
Q-512kbps (320x240, 30fps)

Recording will continue up to 1,2,5,10,15,20,30, 60, 90, or Continue even if pressing STOP button

Set Pre Rec and Post Rec Time (0 to 90 seconds)

Set rule of file name, world time (WT) or local time (LT)

Select On Screen Display, "Simple", "Details", "Last" or "Off"

Enable or disable output of recording status as GPIO9

Enable or disable output of recording Error status as GPIO9

Select the initial audio output upon power on.
(Off, 1, 2, Both, Last)

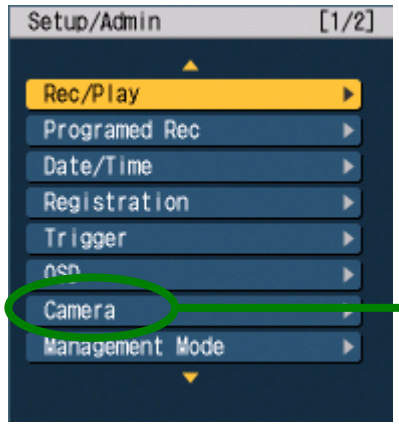
Select "Single" (normal playback, one file at a time) or "Relay" (multiple files playback)

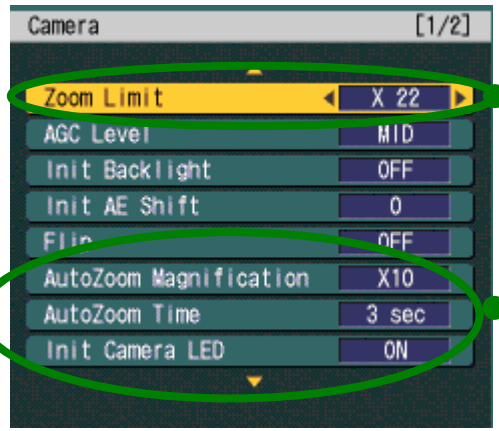
Playback jumps to the trigger or bookmark position, whichever found earlier

Move to the beginning of a file during playback

# (4) Camera Control-Auto Zoom / IR Set up by Administrator

**[Admin] Page 1/2**
**From Control Panel Top Menu**
**--"Setup info"—"Admin"**



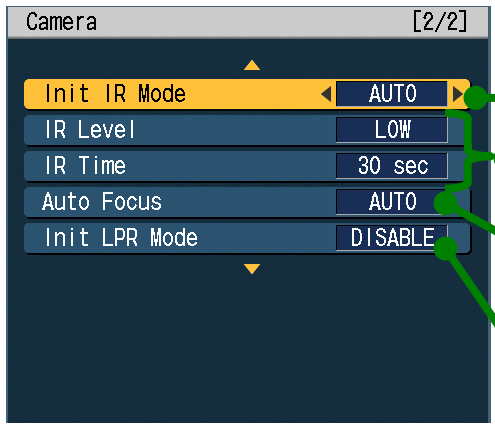




**Adjust "Zoom Limit", "x22" for optical or "x220" for digital**

**1. Adjust "Auto Zoom Magnification" selecting from "1,2,3,4,5,7,10,15, or 22"**

**2. Adjust "Auto Zoom" Time for zoom magnification retention time from "3,5, or 8" seconds**

***Factory Initial setting:**
**"Zoom Limit" = "x22"**
**"Auto Zoom Magnification" = "10"**
**"Auto Zoom Time" = "3" seconds.**




**Select "Auto", "Off", "On" or "Last"**

**When setting "Init IR Mode" as "Auto", select IR Level, "Low", or "High" and IR Time, "10, 30, 60 or 300"**

**Select "Auto", "Preset", or "Disable".**
**"Auto": Set to auto focus when zoom ratio is changed.**
**"Preset": When the soom is 3x or below, the camera is focused at about 15m (50ft).**
**"Disable": Focus is locked at a distance of about 40m (130ft) and auto focus is disabled.**

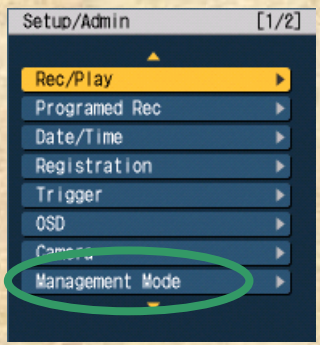
**Enable or disable LPR (License Plate Recognition)**

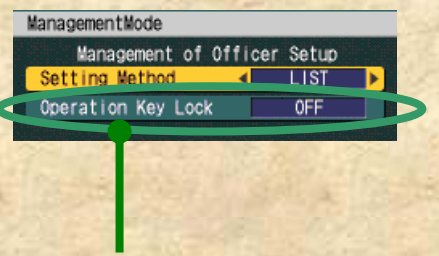
# (5) Control Panel Key Lock

**All buttons except buttons in circle**
**"REC"**
**"Cursor Button" "Menu" "Return"**
**"Control Panel On/Off",**
**"REC" on both VPU and Camera**
**will be locked.**

## Control Panel Key Lock Set up by Administrator and Officer

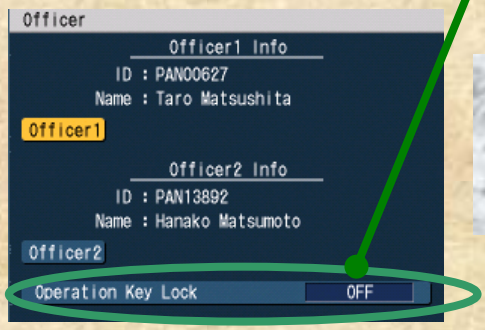
**[Key Lock by Admin]**
**From Control Panel Top Menu**
**--"Setup info"—"Admin"**




**Select "Operation Key Lock",**
**"On" or "Off".**

**[Key Lock by Officer]**
**From Control Panel Top Menu**
**--"Setup info"—"Officer"**

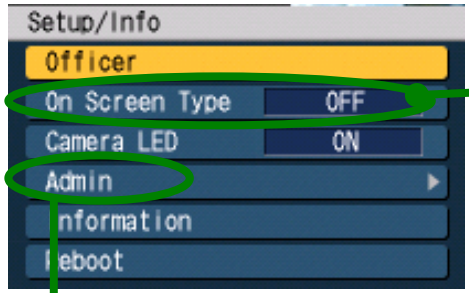



****When locked by Administrator, the key cannot be unlocked by Officer (from "Officer" Set up).**

# (6) On Screen Type set up by Officer / OSD set up by Administrator

**[Top Menu]**

**[Setup/Info]**

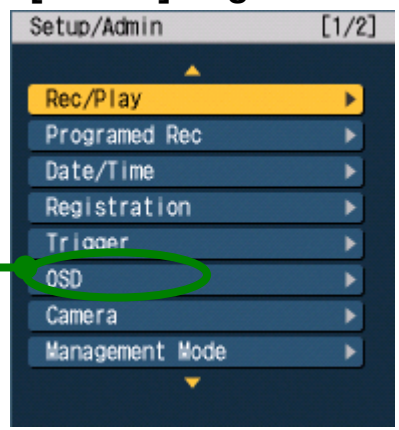


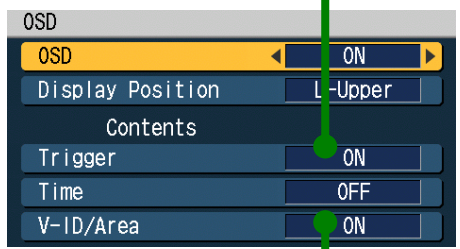

**On Screen Type set up by Officer, "AUTO", "SIMPLE", "DETAILS" or "OFF"**

***1. See more details on "Live mode on screen type" and "Archive mode on screen type".**

***2. On Screen Type will NOT be recorded in the recording file.**

**[Admin] Page 1/2**




**"Printable (A to Z)" of the trigger will be recorded in the recorded file when turning on the trigger.**

**"Vehicle ID @ Area" will be recorded in the recorded file when turning on "V-ID/Area".**

***1. Vehicle ID and Area need to be included in the Officer registration text file.**

***2. The first 5 letters for Vehicle ID and the first 4 letters for Area will be appeared on screen. For example, if Vehicle ID is "1234567" and Area is "California", it will be "12345@Cali" appeared on screen.**

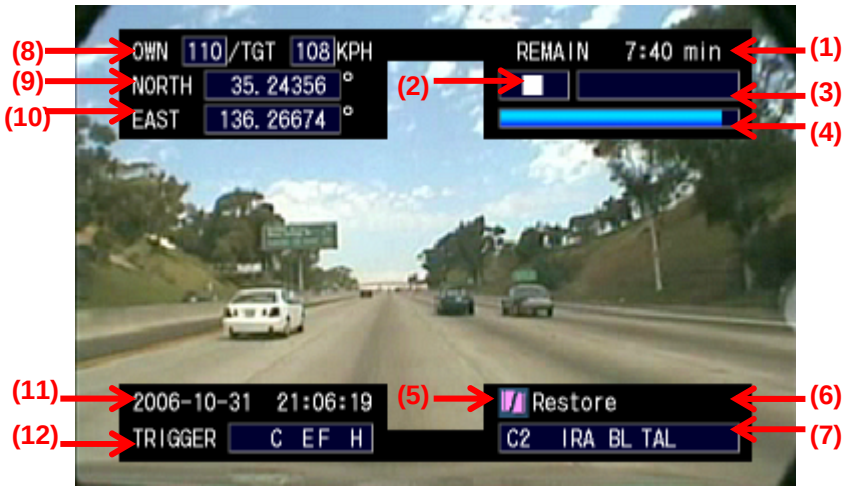
**OSD (On Screen Display) for the date/time, trigger and V-ID/Area set up by Administrator will be included in the recorded file.**

****If On Screen Type "DETAILS" is set up, this OSD will be hidden.**

# (6-a) Live Mode On Screen Type

## [SIMPLE]

## [DETAILS]




***If setting on screen type "AUTO" and (1), (2) or (3) is changed, "SIMPLE" on screen type will be appeared on screen for 3 to 5 seconds.**

**(1)** Remaining P2 card recording time

**(2)** Mode indication (■ Pause, ● Record)

**(3)** Status Display
PON: Power On Recording "ON"
CARD FULL: No space on P2 card
CARD PROTECT: The write-protect switch of P2 card is set to protect
VUP CARD: Recording is not possible due to P2 card intended for version upgrade
UNFORMATTED: P2 card is not formatted
REFORMAT: P2 card needs to be reformatted
ILLEGAL CARD: An unusable card is inserted in VPU
NO CARD: No P2 card is inserted in VPU
RUNDOWN: P2 card is closed to the end of its service life

**(4)** Remaining P2 Card capacity bar

**(5)** "Restore" appears only when there is a file that needs to be restored

**(6)** Mark Position Bookmark position

**(7)** VPU set up Status
C1: Camera 1 selected C2: Camera 2 selected
IR: Camera IR mode is "ON" IRA: Camera IR mode is "OFF"
BL: Camera backlight is "ON" TAL: Camera lamp is "ON"
LOCK: Control Panel Key Lock is "ON"

**(8)** Speed (MPH/KPH): OWN-own vehicle speed, TGT-target vehicle speed
*Target vehicle speed depends on the type of radar gun that is connected

**(9)** Location information (latitude)

**(10)** Location information (longitude)

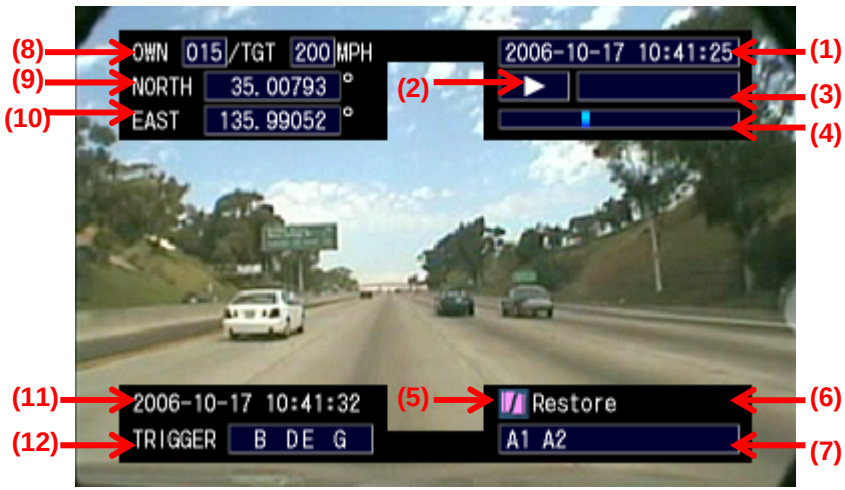
**(11)** Date/Time

**(12)** Trigger input status: GPIO 1 to 8 are displayed in order from the left.
The letters assigned by "Printable" appear when the "Detection" occurs

# (6-b) Archive Mode On Screen Type

## [SIMPLE]

## [DETAILS]




(1) Playback filename (Local time at start of recording)

(2) Mode indication ( ▶Playback, ❚❚Pause, ▶▶FF ◀◀ RW ❚▶ Slow)

(3) Playback Speed and Status Display
<Playback Speed> x1/10, x1/2, x4, x20, x200
<Status Display>
READ ERROR: An error occurred while reading
META ERROR: No associated meta information file exists.
PLAY ERROR: A decoder malfunction occurred

(4) Playback location

(5) "Restore" appears only when there is a file that needs to be restored

(6) Mark Position Bookmark position Trigger position
File beginning

(7) Sound output setting: A1-Audio 1 A2-Audio 2

(8) Speed (MPH/KPH): OWN-own vehicle speed, TGT-target vehicle speed
*Target vehicle speed depends on the type of radar gun that is connected

(9) Location information (latitude)

(10) Location information (longitude)

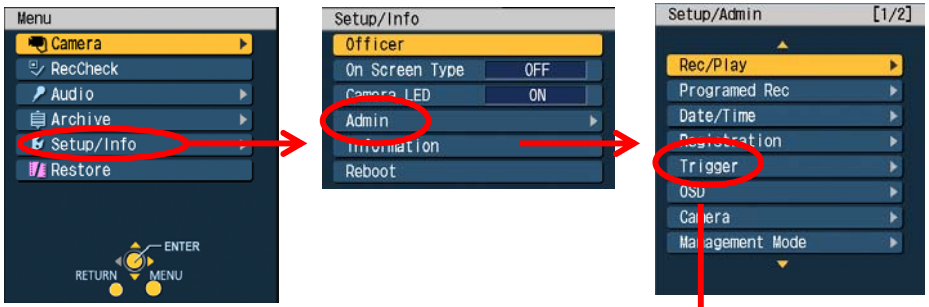
(11) Date/Time

(12) Trigger input status: GPIO 1 to 8 are displayed in order from the left.
The letters assigned by "Printable" appear only when the "Detection" occurs

*If setting on screen type "AUTO" and (2) or (3) is changed, "SIMPLE" on screen type will be appeared on screen for 3 to 5 seconds.

# (7) Trigger
## (a) Set up by Administrator

**(1) Go to “Trigger” in “Admin” menu by Control Panel.**
**(2) Select “Action” which you need when detecting the trigger signal (Trigger 1 to 8).**




Trigger On or Off setting

Select “Action” from the followings for the detection of trigger signals
**“REC”**
**“STOP”**
**“AUTOZOOM”**
**“CAM1”**
**“CAM2”**
**“CAM1REC”**
**“CAM2REC”**
**“CAM1LED”:** Change ON/OFF of REC lamp on the Front Camera (AG-CK10P)
**“NONE”:** No operation

Trigger

| GPIO | ON | | |
|---|---|---|---|
| | Action | Detection | Printable |
| Trigger1 | REC | H | A |
| Trigger2 | STOP | L | B |
| Trigger3 | AUTO ZOOM | B | C |
| Trigger4 | CAM1 | H | D |
| Trigger5 | CAM2 | L | E |
| Trigger6 | CAM1 REC | Level H | F |
| Trigger7 | CAM2 REC | Level L | G |
| Trigger8 | CAM1 LED | H | OFF |

Select the Detection from the followings and choice of detection depends on “Action”:

1. In **“REC”, “CAM1REC”, “CAM2REC”** at Action, Select the detection from **“H”, “Level H”, “L”, “Level L”, “B”.**

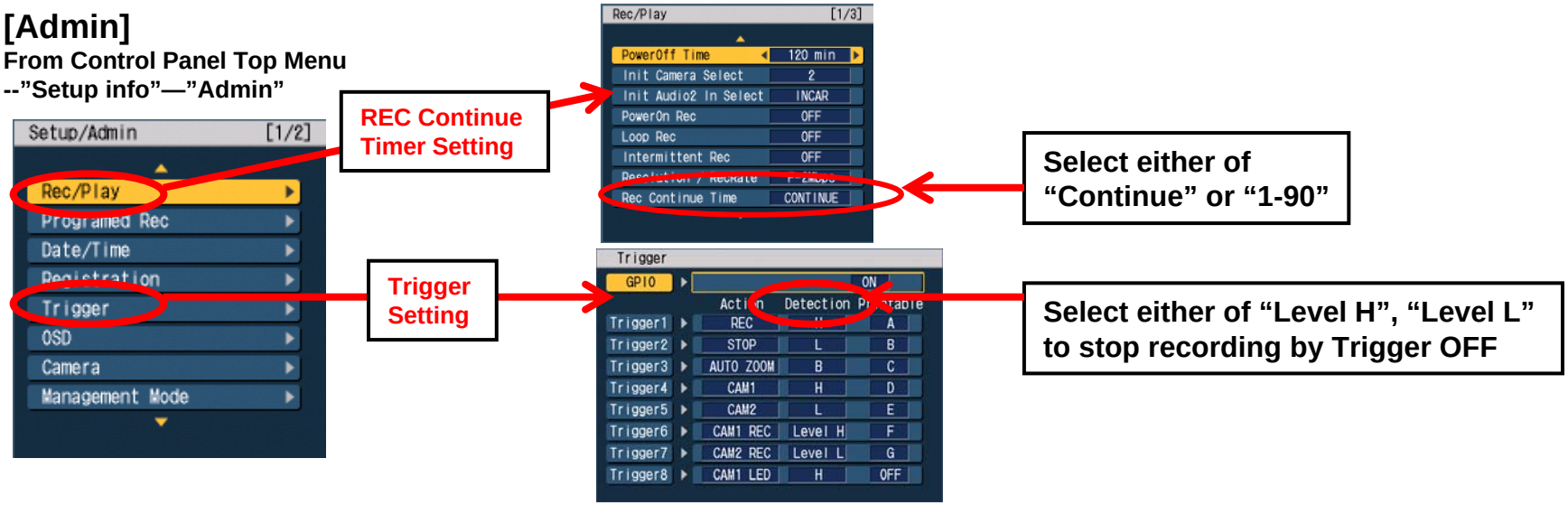
2. In **“CAM1”, “CAM2”, “CAM1LED”, “AUTOZOOM”, “STOP”** Select the detection from **“H”, “L”, “B”.**

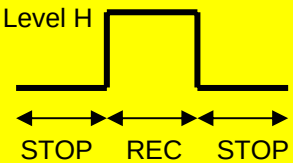
3. In **“None”,** select the detection from **“H”, “L”, “SPEED” (Trigger 8 only)**

Assign the characters to be used in the OSD display.
*When SPEED is selected at the trigger, “Printable” becomes ”-” and cannot be modified. No OSD is displayed.

# (7) Trigger
## (b) Stop recording by Trigger OFF

**[Admin]**
**From Control Panel Top Menu**
**--"Setup info"—"Admin"**




| Stop Recording by Trigger OFF | Detection (Level Signal Setting) | REC Continue Time (Timer Setting) | Stop Recording Priority |
|---|---|---|---|
| **Yes** | **Yes (Level H or Level L)** ex. Level H   | **No ("Continue")** | **1) "STOP" button is pressed. 2) Trigger OFF** |
| | | **Yes ("1 – 90")** | **1) "STOP" button is pressed. 2) Trigger OFF 3) "REC Continue Time"** |
| No | No (H, L, No, or B) | No ("Continue") | "STOP" button is pressed. |
| | | Yes ("1 – 90") | 1) "STOP" button is pressed. 2) "REC Continue Time" |

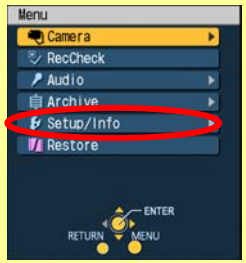
**[Remark] 1. If setting up more than 2 triggers as Level Signal, start recording when the 1st trigger is turned on and stop recording when all triggers set up as Level Signal are turned off.**
**2. Minimum recording time is 1 minute when setting up the trigger as Level Signal.**

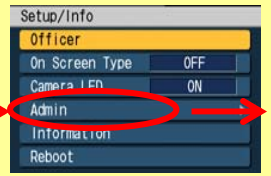
# (8) Menu (VPU settings) Copy

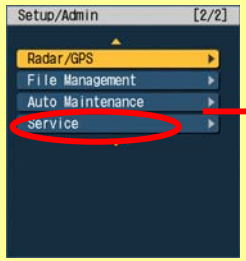
## [Step 1] Get a setting configuration file from the VPU which settings need to be copied to other VPUs.

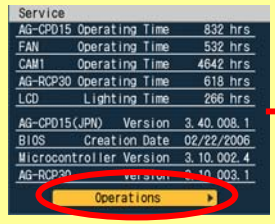
(1) Plug an USB memory* to the VPU which settings need to be copied to other VPUs.
(2) Go to “Operations” in “Admin” menu by Control Panel and select “Menu Copy”.
(3) Press “Copy” button if you agree to copy menu settings to the USB memory.

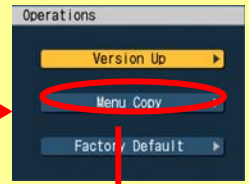
*This action creates a setting configuration file in the USB memory. Please use the USB memory to get the setting configuration file because even if inserting a P2 card instead to the VPU, it cannot be created in the P2 card.

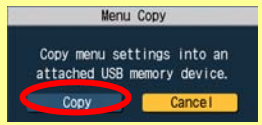



## [Step 2] Copy the settings to the 2nd VPU.

(1) Plug the USB memory stored a setting configuration file at [Step 1] to the 2nd VPU.

(2) Leaving the P2 card slot cover open, press and hold the REC button on the 2nd VPU until the “Ready” or “Busy” lamp starts to flash (about 10 seconds or more).

(2) Keep pressing REC button

(3) “Ready” light will flash and “Busy” lamp will light. Press the “Stop” button on VPU when the “Rec” light starts flashing.

(4) After pressing “Stop” button, the 2nd VPU will reboot and can see the same menu setting as the VPU of [Step 1].

# (9) Event Type for Bookmark

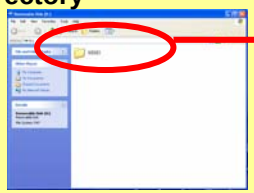
## (a) Create an Event Type text and register it to VPU

### [STEP 1: Create the Event Type text file (“evtype.txt”) and save it to the USB memory.]

USB Memory

Plug an USB memory to PC

Create “WIDKEY” under root directory by PC.



Create the event type text file “evtype.txt” under “WIDKEY”

<Event Type text file example>

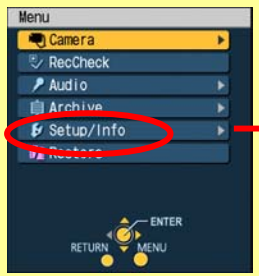
Up to 99 letters for each type, Max 10 event type in the “evtype.txt”

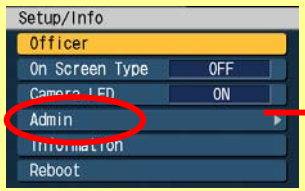
EvType1=Criminal Arrest
EvType2=Traffic Stop
EvType3=DUI
●
●
●
EvType10=Drinking Check

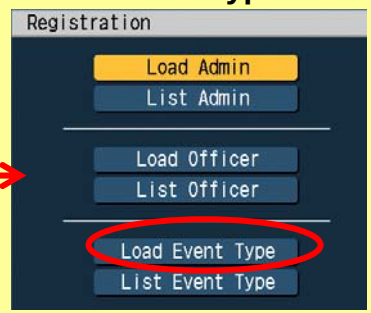
### [STEP 2: Register the Event Type for the Bookmark to VPU.]

Plug the USB memory stored “evtype.txt” to VPU

(a) Plug the USB memory stored the event type file “evtype.txt” to VPU.
(b) Go to “Registration” in “Admin” menu by Control Panel and select “Load Event Type”.



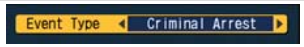
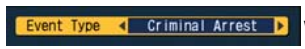
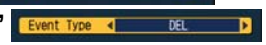






**REMARK: How to delete the Event Type?**

Create the Blank Event Type text file (saved as “evtype.text”) and save it to the USB memory as STEP 1. Then, please follow the same procedure as like STEP 2 to load the Blank Event Type text file.

# (9) Event Type for Bookmark
## (b) How to Add / Delete the Bookmark?

| | LIVE mode (during recording) | | ARCHIVE mode (during playback) | |
|---|---|---|---|---|
| Event Type Loaded to VPU | YES | NO | YES | NO |
| Add the bookmark | Press “Bookmark” button. will appear on screen. | | Press “Bookmark” button.  will appear and select the event type. | Press “Bookmark” button. will appear. |
| Delete the bookmark | N/A | | Press “Bookmark” button while appears.  will appear and select the “DEL”  to delete the bookmark. | Press “Bookmark” button while appears. |

## <How to Add the Bookmark?>

### In case the event types are loaded

(1) Press the bookmark button at Archive mode*.
(2) Event type pop up will appear and select an event type by “◂ ▸” button.
(3) Press the “Bookmark”, “Return” or “Menu” button to confirm the entry.

### In case no event types are loaded

(1) Press the “Bookmark” button at Live or Archive mode.
(2) A Bookmark icon  will appear on screen.

## <How to Delete the Bookmark?>

### In case the event types are loaded,

(1) Press the Bookmark button while the Event type pop up appears.
(2) Select “DEL” in the Event Type pop up by “◂ ▸” button.
(3) Press the “Bookmark”, “Return” or “Menu” button to confirm the entry.

### In case no event types are loaded,

Press the “Bookmark” button when a bookmark icon  appears at Archive mode during playback, pause or slow playback.

*Event type will appear on screen only at Archive mode.
At live mode, the bookmark icon  appears on screen by pressing “Bookmark” button

# (10) Officer/Admin Information Set up

## -Contents-


1. Admin Set up (1) Creating Text Files and Saving in USB memory
2. Admin Set up (2) Text Files for Officer/Admin
3. Admin Set up (3) How to register Officer/Admin information?
4. Admin Set up (4) How to log in “Admin” menu?
5. Admin Set up (5) How to delete Admin/Officer information?
6. Officer Set up (1) How to register Officers info at the beginning of shift?
7. Officer Set up (2) How to delete Officers info at the end of shift?

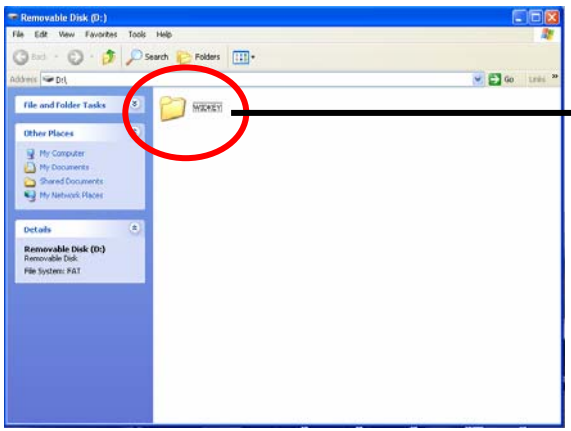
## -Officer/Admin Information Set up by Control Panel-

# Admin Set up (1) Creating Text Files and Saving in USB memory

USB Memory

Plug USB memory to PC

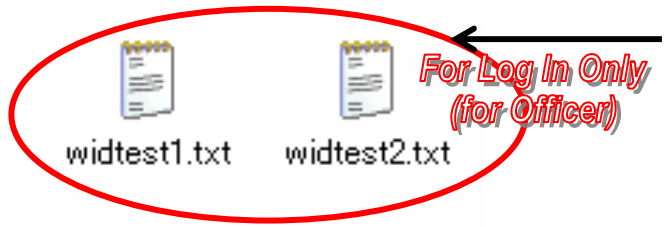
Create "WIDKEY" under root directory By PC



WIDKEY

Create the following text files under "WIDKEY" directory:

(1) Officer Data File
(2) Officer Registration File
(3) Administrator Registration File
(4) Event Type File
(see "Event Type for Bookmark")




**(1) Officer Data File: "wid*****.txt "**

(Up to 8 characters for file name, 1 text file per officer, Max 2 text files)

**(3) Administrator Registration File "wadmin.txt"**

(Max. 10 Administrators)

For Registration Only (for Officer)

**(2) Officer Registration File "wofficer.txt"**

(Max. 500 Officers)

**Necessary only when using "Officer List" mode

**(4) Event Type File "evtype.txt" For Bookmark (See "Event Type for Bookmark)**

(Up to 99 characters for each type, Max 10 event types in the "evtype.txt")

# -Officer/Admin Information Set up by Control Panel-

# Admin Set up (2) Text Files for Officer/Admin

## (1) Officer Data File: "wid*****.txt "

***Within 8 characters for file name,**
**1 text file per officer, Max 2 text files**

Ex. File "widtest1.txt"

```
# Sponge Bob

FirstName=Sponge
MiddleName=
LastName=Bob
ID=ICV12345
Password=Pana1
SDate=2007-09-13
STime=9:00
Edate=2007-09-13
ETime=17:00
Shift=DUI
Area=District1
Source=54321
```

Ex. File "widtest2.txt"

```
# Patrick Star

FirstName=Patrick
MiddleName=
LastName=Star
ID=ICV54321
Password=Pana2
SDate=2007-09-14
STime=08:15
Edate=2007-09-14
ETime=18:00
Shift=Traffic
Area=District2
Source=10000
```

## (2) Officer Registration File: "wofficer.txt"

***Max 500 officers in 1 text file**
***Necessary only when using "Officer List" mode**
***Shift time, shift, area and source will NOT be registered.**

```
# Ichiro Suzuki
FirstName=Ichiro
MiddleName=
LastName=Suzuki
ID=ICV51

Border=-----------------------------------

# David Ortiz
FirstName=David
MiddleName=
LastName=Ortiz
ID=ICV34

Border=-----------------------------------

# Derek Jeter
FirstName=Derek
LastName=Jeter
ID=ICV2

Border=-----------------------------------

# Joe Mauer
FirstName=Joe
LastName=Mauer
ID=ICV7
```

## (3) Administrator Registration File: "wadmin.txt"

***Max 10 Administrator in 1 text file**

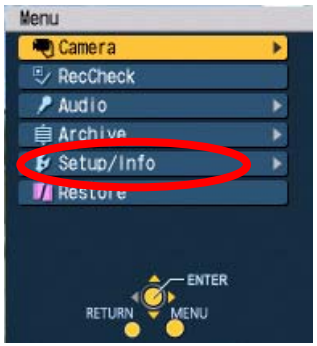
```
# James Bond

FirstName=James
Middle Name=
LastName=Bond
ID=ICV007
Password=007

Border=----------

# Jimmy Harris

FirstName=Jimmy
Middle Name=
LastName=Harris
ID=ICV010
Password=010

Border=----------

# Mike Cowen

FirstName=Mike
Middle Name=
LastName=Cowen
ID=ICV020
Password=020
```

-Officer/Admin Information Set up by Control Panel-

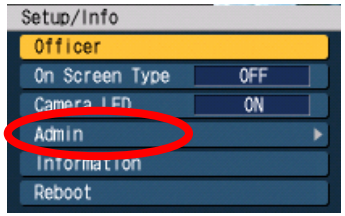
# Admin Set up (3) How to register Officer/Admin information

**(A) Before registering the Officers, Administrator needs to set "Management Mode" in "Admin " menu such as "Auto", "Manual" or "List" for Officer registration mode. (See "Officer Set up (1)")**

[Top Menu]

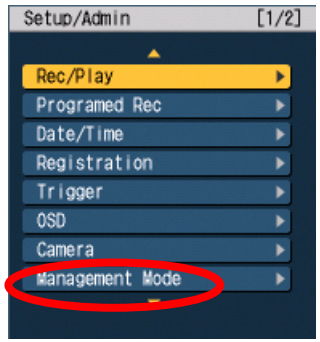



[Setup/Info]

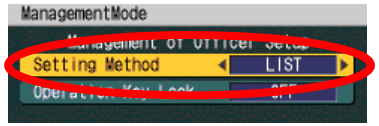



(A)

[Admin]

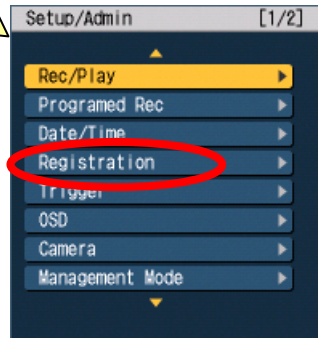



[Management Mode]

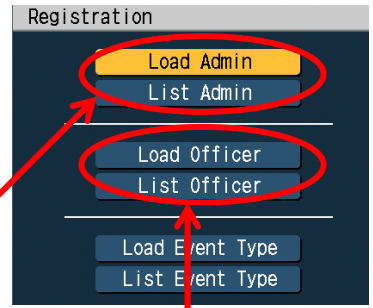



**Select "Auto", "Manual" or "List" (See "Officer Set up (1)"**

(B)




[Registration]




**(B) How to register Officer/Admin Information to VPU by Control Panel?**

1. **Plug USB memory saved Officer Registration File ("wofficer.txt") and Admin Registration File** (wadmin.txt) to VPU**
2. **Go to "Registration" in "Admin" menu**

**Load Admin:**
**Load Max 10 Administrators from a USB memory saved "Administrator Registration File" to VPU**

**List Admin:**
**View Max 10 Administrator name & ID that had already registered in VPU**

**Load Officer:**
**Load Max 500 Officers from a USB memory saved "Officer Registration File" to VPU**

**List Officer:**
**View Max 500 Officer name and ID that had already registered in VPU.**

****Necessary only when using "Officer List" mode**

# -Officer/Admin Information Set up by Control Panel-
# Admin Set up (4) How to Log in “Admin” menu?

## How to Log in “Setup/Admin” menu by administrator?

**(1) Create Officer Data File (wid*****.txt) that is the same Admin information registered in VPU**

**(2) Save the Officer Data File to USB memory and plug it to VPU to log in “Setup/Admin” menu**

NOTE1: If many officer data files are existing in USB memory, VPU will detect the first one in ascending order.

NOTE2: If wrong USB memory plug to VPU, the error message will appear.

**“wadmin.txt”**

registered in VPU

```
# James Bond

FirstName=James
Middle Name=
LastName=Bond
ID=ICV007
Password=007
```

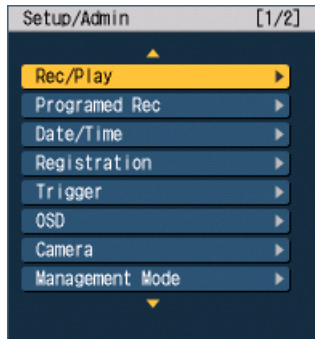
**“widtest3.txt”**

(same info as “wadmin.txt”)

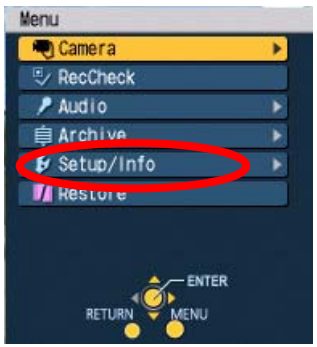
```
# James Bond

FirstName=James
Middle Name=
LastName=Bond
ID=ICV007
Password=007
SDate=2007-10-01
STime=9:00
Edate=2007-10-01
ETime=17:00
```

**Right USB memory Plug to VPU**

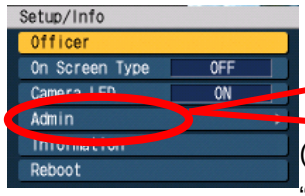
**[Admin]**




**[Top Menu]**




**[Setup/Info]**

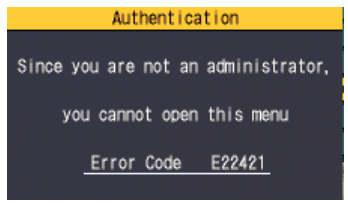



(different info from “wadmin.txt”)

```
# Sean Connery

FirstName=Sean
Middle Name=
LastName=Connery
ID=ICV777
Password=1234
SDate=2007-10-01
STime=9:00
Edate=2007-10-01
ETime=17:00
```

**Wrong USB memory Plug to VPU**

**[Error Message]**



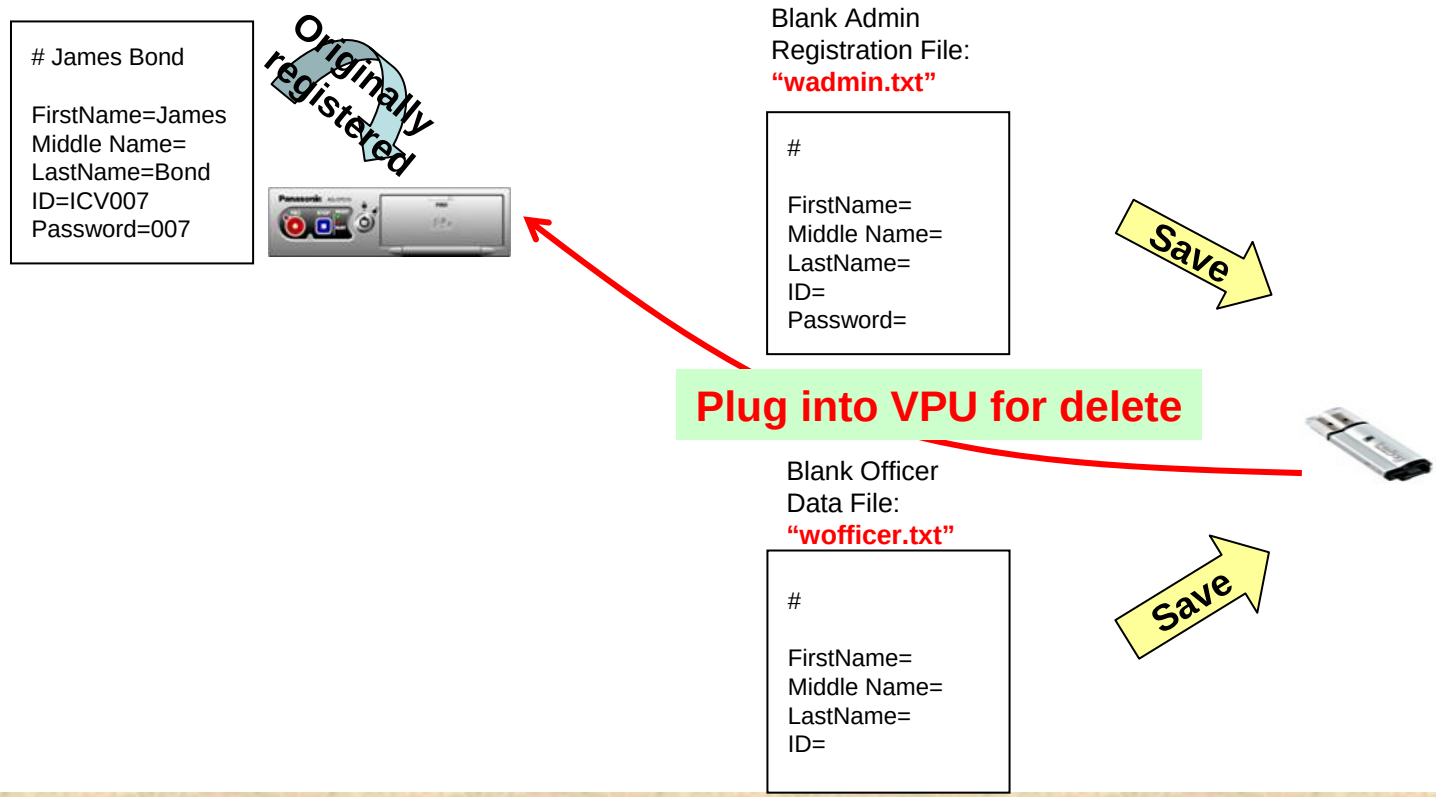
-Officer/Admin Information Set up by Control Panel-

# Admin Set up (5) How to delete Admin/Officer information?

## How to delete Admin information when Admin information had registered in VPU?

(1) Log in “Admin” menu followed by Admin Set up (4)

(2) Create a blank Admin Registration File (wadmin.txt) and save it to USB memory. Then, plug USB memory to VPU and select “Load Admin” in Admin menu (see Admin Set up (4))




## How to delete Officer information when Admin information had registered in VPU?

(1) Log in “Admin” menu followed by Admin Set up (4)

(2) Create a blank Officer Data File (wofficer.txt) and save it to USB memory. Then, plug USB memory to VPU and select “Load Officer” in Admin menu (see Admin Set up (4))

## -Officer/Admin Information Set up by Control Panel-

# Officer Set up (1) How to register Officers info at the beginning of shift?

## How to register the Officers information at the beginning of the shift?

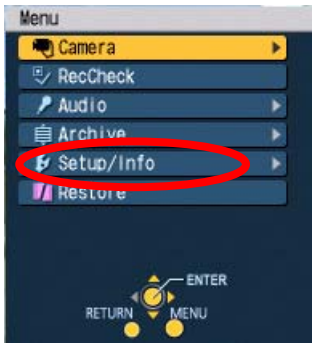
**(1) Plug USB memory saved the Officer information as the file "wid*****.txt"**

**(2) Go to "Officer" by Control Panel menu and Officer Data will be registered according to the "Management Mode" set up by Administrator**

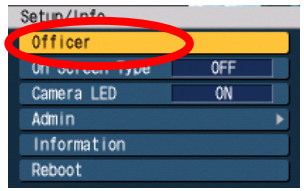
NOTE1: "Management Mode" in "Admin" menu needs to be set as "Auto", "Manual" or "List" by Administrator (See "Admin Set up (2)")

NOTE2: "Auto" will be loaded the first 2 files in ascending order if there exists some files in USB memory. "Manual" will be loaded the first file only in ascending order. If there are 2 officers to load, it's necessary to have 2 USB memories.

**[Top Menu]**

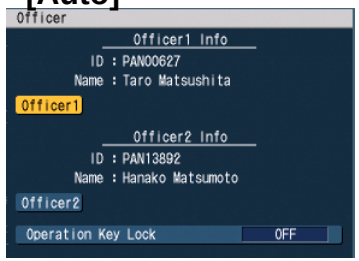



**[Setup/Info]**



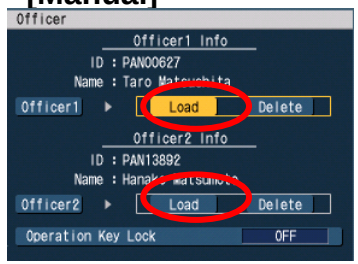

**Officer Info Registration according to "Management Mode"**

**[Auto]**



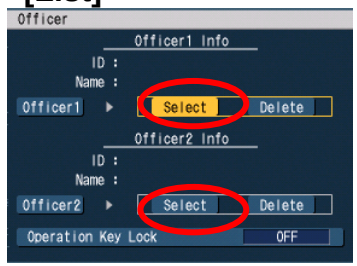

**"AUTO" mode is to loads the max 2 Officer Data Files from a USB memory automatically**

**[Manual]**




**"MANUAL" mode is to be used when Officer 1 and 2 data needs to be loaded by 2 different USB memories**

**[List]**




**"LIST" mode is to list and select the officer data that had already registered in VPU.**

# -Officer/Admin Information Set up by Control Panel-

# Officer Set up (2) How to delete Officers info at the end of shift?

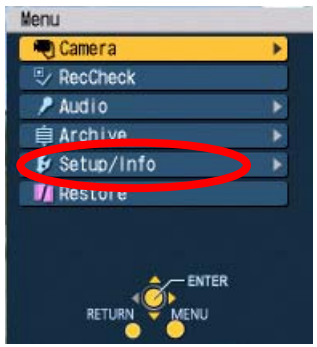
## How to delete Officers information at the end of the shift?

(1) Go to "Officer" by Control Panel menu. If either "Manual" or "List" in "Management Mode" is set by Administrator, delete it at "Officer"

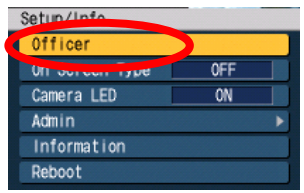
(2) Please overwrite the next one or two officers by USB memory saved Officer Data File (wid*****.txt) when "Auto" in "Management Mode" is set since it is impossible to delete "Officer".

**Officer Info Delete according to "Management Mode"**

[Top Menu]

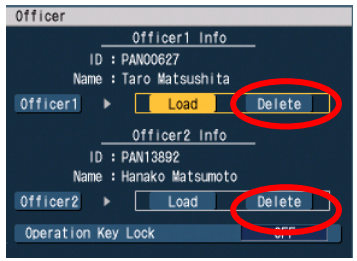



[Setup/Info]

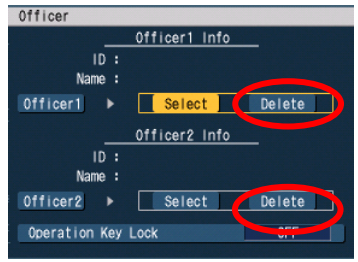



(1)

[Manual]



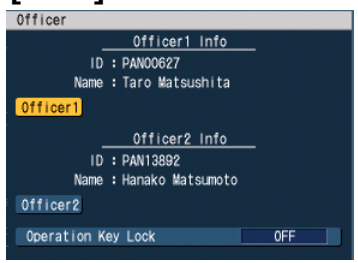

[List]



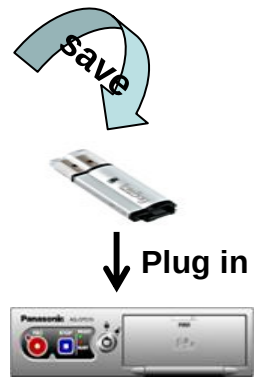

(2)

Due to **No delete** for Officer Info at **"Auto"** in "Management Mode", **please overwrite the next Officers information by Officer Data File "wid*****.txt"**

[Auto]




```
# James Bond

FirstName=James
Middle Name=
LastName=Bond
ID=ICV007
Password=007
SDate=2007-10-01
STime=9:00
Edate=2007-10-01
ETime=17:00
Shift=Traffic
Area=District 5
Source=5555
```



# APPENDIX: Officer/Admin Information Text File Comparison

## -Data of text files for Officer/Admin-

| | | Officer Data File "wid*****.txt" | Officer Registration File "wofficer.txt" | Administrator Registration File: "wadmin.txt" |
|---|---|---|---|---|
| **Remark/Limitation** | | 1) Up to 8 characters for file name<br>2) 1 text file per officer, Max 2 text files | 1) Max 500 officers in 1 text file<br>2) Necessary only when using "Officer List" mode<br>3) Shift time, shift, area and source will NOT be registered. | 1) Max 10 Administrator in 1 text file<br>2) Shift time, shift, area and source will NOT be registered |
| Data to loaded to VPU | Max Characters | | | |
| First Name | 50 | Y | Y | Y |
| Middle Name | 1 | Y | Y | Y |
| Last Name | 50 | Y | Y | Y |
| ID | 50 | Y | Y | Y |
| Password | 12 | Y | N | Y |
| SDate | 10 | Y | N | N |
| STime | 5 | Y | N | N |
| EDate | 10 | Y | N | N |
| ETime | 5 | Y | N | N |
| Shift | 10 | Y | N | N |
| Area | 10 | Y | N | N |
| Source | 50 | Y | N | N |

Y: Data that can be loaded to VPU  N: Data that can NOT be loaded to VPU